

AMENDMENTS TO THE CLAIMS

The following listing of Claims will replace all prior versions, and listings, of Claims in the application:

Claim 1. (Cancelled)

Claim 2. (Previously Presented) A trocar system as recited in Claim 3 wherein the movement of the release member causes the blocking surface to be displaced out of axial alignment with the shield.

Claim 3. (Currently Amended) A trocar system which comprises:

a cannula forming an opening longitudinally therethrough and having a proximally facing surface disposed near a proximal end thereof; and

an obturator assembly being at least partially insertable through the cannula and including:

an obturator housing disposed at a proximal end, the obturator housing including a base portion having a distally facing end surface configured and dimensioned to facilitate close proximate positioning thereof with the proximally facing surface of the cannula;

a penetrating tip disposed at a distal end;

an elongated shield including a guard extending from a shaft, the penetrating tip and guard being movable relative to one another; and

a latch mechanism disposed generally within the obturator housing, which facilitates changing the configuration of the obturator assembly between a fixed-shield orientation, wherein at least a portion of the guard is maintained to extend at least partially distal of the penetrating tip to prevent puncturing of tissue by the penetrating tip, to a non-fixed shield orientation whereby the guard and penetrating tip are permitted to move relative one another to facilitate puncturing of tissue by the penetrating tip, the latch mechanism including:

a release member having a button portion and a camming surface; wherein the button portion protrudes at least partially through an opening formed in the distally facing end surface of the obturator housing, the button portion being moveable from a first position extending outwardly from the distally facing end surface of the obturator housing to a second position wherein the button portion is positioned further within the obturator housing; and

a latch operatively associated with the release member, the latch having a blocking surface and a mating surface, the mating surface cooperating with the camming surface of the release member such that application of a proximally directed force to the distal end of the button portion of the release member of the obturator assembly to move to the second position to impart vertical movement of the release member whereby the camming surface moves substantially laterally and biases the mating surface to move the latch such that the blocking surface permits axial movement of the shield.

Claim 4. (Previously Presented) A trocar system as recited in claim 3 wherein the latch is biased such that the blocking surface is normally disposed in axial alignment with at least a portion of the shield to prevent axial movement thereof.

Claim 5. (Original) A trocar system as recited in claim 2 wherein the blocking surface is disposed proximal of the at least a portion of the shield.

Claim 6. (Previously Presented) A trocar system as recited in claim 3 wherein the release member is configured and dimensioned such that axial movement of the release member imparts lateral movement of the blocking surface of the latch member.

Claim 7. (Previously Presented) A trocar system as recited in claim 3 wherein the obturator includes a shaft fixed relative to the housing and the penetrating tip is a flat knife blade secured to the shaft.

Claim 8. (Previously Presented) A trocar system as recited in claim 3 wherein the elongated shield includes an extended surface which is disposed on the shield such that upon axial movement of the shield, the extended surface biases the release member away from the latch to permit the latch to return to its original orientation.

Claim 9. (Previously Presented) A trocar system as recited in claim 3 wherein the guard is configured and dimensioned to completely enclose the penetrating tip.

Claim 10. (Previously Presented) A trocar system as recited in claim 3, wherein the shield and guard are separate elements fitted together during assembly of the obturator.

Claim 11. (Original) A method of inserting a trocar assembly into a patient comprising the steps of:

approximating an obturator assembly with a cannula assembly such that a button portion of a release member is urged proximally and a camming surface of the release member imparts lateral movement of a blocking surface of a latch such that the blocking surface is moved to permit relative movement of the shield and a penetrating tip of the obturator assembly; and
inserting the trocar assembly through the body wall of a patient by pushing the trocar assembly toward the body wall such that a guard of the shield is urged proximally to reveal the penetrating tip and permit passage of the trocar assembly through the body wall.

Claim 12. (Original) A method of inserting a trocar assembly as recited in claim 11 wherein lateral movement of the blocking member moves the blocking member out of axial alignment with the shield.

Claim 13. (Original) A method of inserting a trocar assembly as recited in claim 11, further including the step of resetting the shield to a fixed orientation distal of the penetrating tip upon passage of the penetrating tip through the body wall and into a cavity of the patient's body, such resetting being facilitated by axial movement of the shield and resilient bias of the latch to a position wherein the blocking surface is axially aligned with at least a portion of the shield.

Claim 14. (Currently Amended) A trocar system which comprises:

a cannula forming an opening longitudinally therethrough and having a proximally facing surface disposed near a proximal end thereof; and

an obturator assembly being at least partially insertable through the cannula and including:

a housing disposed at a proximal end, the housing including a base portion having a distally facing end surface configured and dimensioned to facilitate close proximate positioning thereof with the proximally facing surface of the cannula;

a penetrating tip disposed at a distal end;

an elongated shield including a guard extending from a shaft, the penetrating tip and guard being movable relative to one another; and

a latch mechanism disposed generally within the housing, which facilitates changing the configuration of the obturator assembly between a fixed-shield orientation, wherein at least a portion of the guard is maintained to extend at least partially distal of the penetrating tip to prevent puncturing of tissue by the penetrating tip, to a non-fixed shield orientation whereby the guard and penetrating tip are permitted to move relative one another to facilitate puncturing of tissue by the penetrating tip, the latch mechanism including:

a release member having a button portion extending distally in axial alignment with at least a portion of the proximally facing surface of the cannula and a camming surface, the button portion being moveable from a first a first position extending outwardly from the distally facing end surface of the obturator

housing to a second position wherein the button is positioned further within the obturator housing; and

a latch operatively associated with the release member, the latch having a blocking surface and a mating surface, the mating surface cooperating with the camming surface of the release member such that application of a proximally directed force to the distal end of the button portion of the release member of the obturator assembly to move to the second position to impart vertical movement of the release member whereby the camming surface moves substantially laterally and biases the mating surface to move the latch such that the blocking surface permits axial movement of the shield.

Claim 15. (Previously Presented) A trocar system as recited in claim 14 wherein movement of the release member causes the blocking surface to be displaced out of axial alignment with the shield.

Claim 16. (Previously Presented) A trocar system as recited in claim 14 wherein the button portion protrudes at least partially through an opening formed in the distally facing end surface of the obturator housing.

Claim 17. (Previously Presented) A trocar system as recited in claim 14 wherein the latch is biased such that the blocking surface is normally disposed in axial alignment with at least a portion of the shield to prevent axial movement thereof.

Claim 18. (Previously Presented) A trocar system as recited in claim 15 wherein the blocking surface is disposed proximal of the at least a portion of the shield.

Claim 19. (Previously Presented) A trocar system as recited in claim 14 wherein the release member is configured and dimensioned such that axial movement of the release member imparts lateral movement of the blocking surface of the latch member.

Claim 20. (Previously Presented) A trocar system as recited in claim 14 wherein the obturator includes a shaft fixed relative to the housing and the penetrating tip is a flat knife blade secured to the shaft.

Claim 21. (Previously Presented) A trocar system as recited in claim 14 wherein the shield includes an extended surface which is disposed on the shield such that upon axial movement of the shield, the extended surface biases the release member away from the latch to permit the latch to return to its original orientation.